

Sikament®

High Range Water Reducing Concrete Admixture

Product Description	<p>Sikament® is highly effective dual action liquid super plasticizer for the production of free flowing concrete or as a substantial water-reducing agent for promoting high early and ultimate strengths.</p> <p>It complies with ASTM C-494 Type A&F and BS 5075 Part 3.</p>
Uses	<p>Sikament® is used as a super plasticizer in the production of free flowing concrete such as:</p> <ul style="list-style-type: none"> ■ Slabs and foundations. ■ Walls and columns. ■ Slender components with densely packed reinforcements ■ Beams and ceilings <p>It is also used as a water-reducing agent leading to high early strength concrete such as:</p> <ul style="list-style-type: none"> ■ Precast concrete elements. ■ Prestressed concrete ■ Bridges and cantilever structures. ■ Concrete where formwork must be removed quickly or early loading applied.
Advantages	<p>Sikament® provides the following properties:</p> <p><u>As a Super Plasticizer:</u> Workability is greatly improved. Increased placeability in slender components with densely packed reinforcement. Easy placing, less vibrating. Normal set without retardation. Significantly reduces the risk of segregation. Improved water tightness.</p> <p><u>As a Water-Reducer:</u> Up to 20% water reduction. 16 hours compressive strengths increased by up to 100%. 28 days strengths improved 40%.</p> <p>Chloride-free-does not attack reinforcement.</p>
Technical Data	
Base	Synthetic Type Dispersion
Appearance / Colour	Brown liquid
Density (at 20°C)	1.180 (ASTM C-494)
Packaging	<p>5 and 20 kg pails</p> <p>220 kg drums</p> <p>Bulk Tanks packing available upon request</p>
Storage	Store in dry conditions, protected from direct sunlight and frost.
Shelf Life	12 months from date of production if stored properly in undamaged and unopened original sealed packing.



Application

Dosage	0.6 - 2.5 % by weight of cement depending on desired workability and strength. It is advisable to carry out trial mixes to establish the correct dosage rate required.
Dispensing	Sikament® can be added to the mixing water prior to its addition to the aggregates or directly to the freshly mixed concrete (the plasticizing effect is more pronounced).

For Ready-mix concrete, Sikament® is added to the concrete immediately prior to discharge and after further mixing has taken place for three minutes.

Important Notes	Sikament® is compatible with all types of Portland cement including S.R.C. and H.B.F. cements.
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Accidental overdosing of Sikament® causes an extension of the initial setting time, however, no excessive amount of additional air will be entrained.

Safety Instructions

Safety Precautions	Accidental splashes to the skin must be washed off with water and soap. Accidental splashes to the eyes or mucous membrane must be rinsed with clean warm water. Seek medical attention.
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Ecology	Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.
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Transport	Non-hazardous
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Toxicity	Non-Toxic under relevant health and safety codes.
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Legal notes

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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